

Substitute Abstract

A linear traverse mechanism for guiding the spooling of a flexible linear product at high speed, made possible by reducing the internal load of the mechanism while reducing the angular deflection of the filament. The mechanism includes a pivotally-mounted traverse arm controlled by an electric motor having precision indexing ratio characteristics to compensate for linear error. The linear product is fed through a guiding structure carried by said traverse arm to be discharged adjacent a receiving spool. Control of movement of the traverse arm depends upon manually-controlled programming which compares a desired position of the traverse arm with an axially attained position of the arm, and adjusting the movement of the arm to close any detected gap. The programming permits the manual selection of the length of the path of traverse, so that spools of varying axial length may be accommodated.